

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number  
**WO 2005/060939 A3**

(51) International Patent Classification<sup>7</sup>: **A61K 9/16**,  
31/18, A61P 13/08

(21) International Application Number:  
PCT/SI2004/000044

(22) International Filing Date:  
22 December 2004 (22.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
P-200300317 23 December 2003 (23.12.2003) SI

(71) Applicant (for all designated States except US): **LEK  
PHARMACEUTICALS D.D.** [SI/SI]; Verovskova 57,  
1526 Ljubljana (SI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KUHAR, Polonca**  
[SI/SI]; Prvomajska 10, 1000 Ljubljana (SI). **SIRCA, Ju-  
dita** [SI/SI]; Gaspersiceva 7, 1000 Ljubljana (SI).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
29 December 2005

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: CONTROLLED-RELEASE PHARMACEUTICAL FORMULATION

(57) Abstract: In the present invention, a new pharmaceutical formulation with controlled release of the freely water soluble low-dose active substance used for at the most once daily administration is disclosed. The active substance is maintained at a suitable therapeutic concentration in the blood throughout at least a 24 hour period independent of the physiological pH value to which the pharmaceutical formulation is exposed.



WO 2005/060939 A3